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PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only	
PCT/US 01 / 40659	
International Application No.	
03 MAY 01 (03.05.01)	
International Filing Date	
PCT INTERNATIONAL APPLICATION	
RO/US	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference (if desired) (12 characters maximum) 7781.20-304	

Box No. I TITLE OF INVENTION	
METHOD AND APPARATUS FOR SIMPLIFYING AND ACCELERATING THE DEFINITION DYNAMIC GENERATION AND IDENTIFICATION OF GEOGRAPHIC REGIONS	
Box No. II APPLICANT	
<input checked="" type="checkbox"/> This person is also inventor	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SAP Aktiengesellschaft Neurotstrasse 16 69190 Walldorf GERMANY	Telephone No. (49) 6277-764436 Facsimile No. (49) 6227-764433 Teleprinter No. Applicant's registration No. with the Office
State (that is, country) of nationality: DE	State (that is, country) of residence: DE
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) EBERT, Peter Steffen 2333 Eastridge Avenue #7 Menlo Park, CA 94025 United States of America	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: DE	State (that is, country) of residence: US
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) GARRETT, Arthur S. F'NNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. 1300 I Street, N.W. Washington, DC 20005-3315 United States of America	Telephone No. (202) 408-4000 Facsimile No. (202) 408-4400 Teleprinter No. Agent's registration No. with the Office 20,338
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Box No.V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- ☒ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian
- ☒ **EP European Patent:** AT Austria, BE Belgium, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> AE United Arab Emirates | <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> AG Antigua and Barbuda | <input checked="" type="checkbox"/> GH Ghana | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> MZ Mozambique |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> RO Romania |
| | <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> JP Japan | |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> KP Democratic People's Republic | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> BZ Belize | of Korea | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> KR Republic of Korea | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> CH & LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> KZ Kazakhstan | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> LC Saint Lucia | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> CO Colombia | <input checked="" type="checkbox"/> LK Sri Lanka | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> CR Costa Rica | <input checked="" type="checkbox"/> LR Liberia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> LS Lesotho | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> LT Lithuania | |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> LU Luxembourg | <input checked="" type="checkbox"/> TZ United Republic of Tanzania |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> LV Latvia | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> DM Dominica | <input checked="" type="checkbox"/> MA Morocco | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> DZ Algeria | <input checked="" type="checkbox"/> MD Republic of Moldova | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> EE Estonia | | |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> MG Madagascar | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> GB United Kingdom | Macedonia | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> GD Grenada | <input checked="" type="checkbox"/> MN Mongolia | <input checked="" type="checkbox"/> ZA South Africa |
| | | <input checked="" type="checkbox"/> ZW Zimbabwe |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

- | | | |
|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box
If the Supplemental Box is not used, this sheet should not be included in the request.

1. *If, in any of the Boxes, except Boxes Nos VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information in such case, write "Continuation of Box No. . ." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular*

- (i) *if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;*

- (ii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant,*

- (iii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;*

- (iv) *if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;*

- (v) *if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part". in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;*

- (vi) *if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.*

2. *If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.*

CONTINUATION OF BOX IV:

VOIGHT, Jerry D.	Reg Nos.
PETERSON, Stephen L.	23,020
ZOTTER, Bruce C.	26,325
SANTORELLI, Albert J.	27,680
GRIFFEN, Susan H.	22,610
GRAHAM, Barry W.	30,907
CONVERSE, Robert E.	29,924
CHAPMAN, Ernest F.	27,432
THAYER, Linda J.	25,961
	45,681

all of FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.
1300 I Street, N.W., Washington, DC 20005-3315
United States of America

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) 04 May 2000 (04.05.00)	60/202,083	US		
item (2)				
item (3)				
item (4)				
item (5)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☒ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ item (4) ☐ item (5) ☐ other, see Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)).

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used).

ISA/ . EP.

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of
declarations

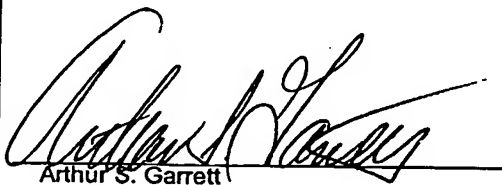
- | | | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|
| <input type="checkbox"/> Box No. VIII (i) | Declaration as to the identity of the inventor | : |
| <input type="checkbox"/> Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| <input type="checkbox"/> Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

Box No. IX CHECK LIST; LANGUAGE OF FILING

This international application contains:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
(a) the following number of sheets in paper form:		1. <input checked="" type="checkbox"/> fee calculation sheet	:
request (including declaration sheets)	: 5	2. <input type="checkbox"/> original separate power of attorney	:
description (excluding sequence listing part)	: 10	3. <input type="checkbox"/> original general power of attorney	:
claims	: 11	4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:	:
abstract	: 1	5. <input type="checkbox"/> statement explaining lack of signature	:
drawings	: 7	6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):	:
Sub-total number of sheets	: 34	7. <input type="checkbox"/> translation of international application into (language):	:
sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below)	:	8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material	:
Total number of sheets	: 34	9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))	:
(b) sequence listing part of description filed in computer readable form		(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	:
(i) <input type="checkbox"/> only (under Section 801 (a)(i))		(ii) <input type="checkbox"/> (only where check-box (b)(i) or (b)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:
(ii) <input type="checkbox"/> in addition to being filed in paper form (under Section 801 (a)(ii))		(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column	:
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in right column):		10. <input type="checkbox"/> other (specify):	:
Figure of the drawings which should accompany the abstract: 5		Language of filing of the international application: English	

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request)


Arthur S. Garrett

(03.05.01)

For receiving Office use only		2. Drawings:
1. Date of actual receipt of the purported international application:	JC17 Rec'd PCT/PTO 03 MAY 2001	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA/ EP	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

For International Bureau use only
Date of receipt of the record copy by the International Bureau:

PCT

FEE CALCULATION SHEET

Annex to the Request

For receiving Office use only
PCT/US 01/40659
International Application No.
03.05.01
Date stamp of the receiving Office

Applicant's or agent's file reference	7781.20-304
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Applicant PETER EBERT

CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	240.00 T
2. SEARCH FEE	846.00 S
International search to be carried out by <u>EP</u>	
<i>(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search)</i>	
3. INTERNATIONAL FEE	
Basic Fee	
Where item (b) of Box No. IX applies, enter Sub-total number of sheets } <u>34</u>	
Where item (b) of Box No. IX does not apply, enter Total number of sheets }	
b1 first 30 sheets	382.00 b1
b2 <u>4</u> x <u>9.00</u> =	36.00 b2
number of sheets fee per sheet	
b3 additional component (only if sequence listing part of description is filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	
400 x	fee per sheet b3
Add amounts entered at b1, b2 and b3 and enter total at B . . .	
418.00 B	
Designation Fees	
The international application contains <u>88</u> designations.	
<u>6</u> x <u>82.00</u> =	492.00 D
number of designation fees amount of designation fee payable (maximum 6)	
Add amounts entered at B and D and enter total at I	
910.00 I	
<i>(Applicants from certain States are entitled to a reduction of 75% of the international fee Where the applicant is (or all applicants are) so entitled, the</i>	
4. FEE FOR PRIORITY DOCUMENT (if applicable)	
15.00 P	
5. TOTAL FEES PAYABLE	
2,011.00	
TOTAL	
Add amounts entered at T, S, I and P, and enter total in the TOTAL box	
<input type="checkbox"/> The designation fees are not paid at this time.	

240
846
382
36
0
418
492
910
15
2011

MODE OF PAYMENT	
<input type="checkbox"/> authorization to charge	<input type="checkbox"/> postal money order
<input type="checkbox"/> cheque	<input type="checkbox"/> bank draft
<input type="checkbox"/> cash	<input type="checkbox"/> revenue stamps
<input type="checkbox"/> coupons	<input type="checkbox"/> other (specify).
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT	
<i>(This mode of payment may not be available at all receiving Offices)</i>	
<input type="checkbox"/> Authorization to charge the total fees indicated above.	Receiving Office: RO/ <u>US</u>
<input checked="" type="checkbox"/> <i>(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit)</i> Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	Deposit Account No.: <u>06-0916</u>
<input type="checkbox"/> Authorization to charge the fee for priority document.	Date: <u>03 May 2001</u>
	Name: <u>Arthur S. Garrett</u>
	Signature:

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

NOTIFICATION CONCERNING PAYMENT OF PRESCRIBED FEES

(PCT Rules 14, 15 and 16 and Administrative
Instructions, Section 304(a) and (b) and 323(d))

To:
ARTHUR S. GARRETT
FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, LL
1300 I STREET, NW.
WASHINGTON, DISTRICT OF COLUMBIA
20005-3315

Date of mailing
(day/month/year) 01 Jun 2001

Applicant's or agent's file reference
7781.20-304

PAYMENT DUE

See item 3 for time limits

International application No.
PCT/US01/40659

International filing date/Date of receipt
(day/month/year) 03 May 2001

Priority date (day/month/year)
04 May 2000

Applicant
SAP AKTIENGESELLSCHAFT

1. The applicant is hereby notified that this receiving Office has received:

- ☒ the payment of all the prescribed fees, and ☐ an overpayment, which will be refunded in due course.
☐ no or insufficient payment of the prescribed fees and the applicant is hereby invited to pay the balance due, as summarized under item 2, within the time limit(s) indicated under item 3.

2. Fees and payment calculation:

2,011.00	-	2,011.00	=	0.00
Total fees payable		Amount paid		Balance

- ☐ The details of the calculation are given in the Annex.

3. Time limit(s) for payment and amount(s) payable (Rule 14.1, 15.4 and 16.1(f)):

- ☐ within ONE MONTH from the date of receipt of the international application (for the transmittal fee (if any), the search fee, the basic fee and the designation fee). The amount payable for each fee is the amount applicable on the date of receipt of the international application.
- ☐ within ONE YEAR from the priority date (only for the designation fee and only if this time limit expires later than the above limit).
-If the designation fee is paid within one month from the date of receipt of the international application, the amount payable is the amount applicable on that date of receipt.
-If the designation fee is paid within one year from the priority date but later than one month from the date of receipt of international application, the amount payable is the amount applicable on the date of payment. The receiving Office should be consulted for the applicable amount.
- ☐ within 16 MONTHS from the priority date (only for the fee for priority document). The applicant's attention is drawn to the fact the request made by the applicant under Rule 17.1(b) will be considered not to have been made unless the fee is paid within that time limit.

4. Additional observations (if necessary):

- ☐ The search copy will not be transmitted to the International Searching Authority until the search fee is paid (therefore the start of the international search will be delayed) (Rule 23.1(a) and (b)).

Name and mailing address of the receiving Office
Assistant Commissioner for Patent
Box PCT
Washington, D.C. 20231 Attn: RO/US
Facsimile No. 703-305-3230

Authorized officer
Hostad, Sigfried

Telephone No. 703-305-3680

**ANNEX TO FORM PCT/RO/102
CALCULATION OF THE PRESCRIBED FEES**

International application No.
PCT/US01/40659

[T] Transmittal Fee

Prescribed amount: 240.00 [T]
Amount paid: 240.00
Balance: 0.00

☒ correct amount
☐ overpayment
☐ balance due

[S] Search Fee

Prescribed amount: 846.00 [S]
Amount paid: 846.00
Balance: 0.00

☒ correct amount
☐ overpayment
☐ balance due

[I] International Fee (*Applicants from certain States are entitled to a reduction of 75% of the international fee; see Notes to the Fee Calculation Sheet as annexed to the Request Form, PCT/RO/101, for details. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D).*)

[B] Basic Fee

Fixed amount for first 30 sheets: 382.00 [b₁]
Amount per additional sheet: 9.00
Number of additional sheets: x 4 = 36.00 [b₂]

Prescribed amount (b₁ + b₂) = 418.00 [B]
Amount paid: - 418.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

[D] Designation Fee

Amount of designation fee: 82.00
Number of designation fees payable (maximum 11): x 6

Prescribed amount = 492.00 [D]
Amount paid: - 492.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

Add amounts entered at B and D and enter total at I

Prescribed amount: 910.00 [I]
Amount paid: 910.00
Balance: 0.00

☒ correct amount
☐ overpayment
☐ balance due

[P] Fee for priority document

Prescribed amount: 15.00 [P]
Amount paid: 15.00
Balance: 0.00

☒ correct amount
☐ overpayment
☐ balance due

Additional observations, (if necessary):

- ☐ The amount paid for the designation fee covers the following designations: _____
☐ Other (specify): _____

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

NOTIFICATION OF THE INTERNATIONAL
APPLICATION NUMBER AND OF THE
INTERNATIONAL FILING DATE

(PCT Rule 20.5(c))

To: ARTHUR S. GARRETT FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LL 1300 I STREET, NW WASHINGTON, DISTRICT OF COLUMBIA 20005-3315		PCT NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE (PCT Rule 20.5(c))	
Applicant's or agent's file reference <div style="text-align: center;">7781.20-304</div>		IMPORTANT NOTIFICATION	
International application No. <div style="text-align: center;">PCT/US01/40659</div>	International filing date (day/month/year) <div style="text-align: center;">03 May 2001</div>	Priority date (day/month/year) <div style="text-align: center;">04 May 2000</div>	
Applicant <div style="text-align: center;">SAP AKTIENGESELLSCHAFT</div>			
Title of the invention <div style="text-align: center;">METHOD AND APPARATUS FOR SIMPLIFYING AND ACCELERATING THE DEFINITION DYNAMIC GENERATION AND IDENTIFICATION OF GEOGRAPHIC REGIONS</div>			

<p>1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.</p> <p>2. The applicant is further notified that the record copy of the international application:</p> <div style="margin-left: 40px;"> <input checked="" type="checkbox"/> was transmitted to the International Bureau on <u>01 Jun 2001</u> </div> <div style="margin-left: 40px;"> <input type="checkbox"/> has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau*: <div style="margin-left: 40px;"> <input type="checkbox"/> because the necessary national security clearance has not yet been obtained. <input type="checkbox"/> because (reason to be specified): </div> </div> <p style="margin-top: 20px;">* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).</p>	
<p>3. FOREIGN TRANSMITTAL LICENSE INFORMATION</p> <div style="margin-left: 40px;"> <input type="checkbox"/> Additional license for foreign transmittal not required. This subject matter is covered by a license already granted or the equivalent U.S. national application. Refer to that license for information concerning its scope. <input type="checkbox"/> License for foreign transmittal not required. 37 CFR 5.11(e)(1) or 37 CFR 5.11(e)(2). However, a license may be required for additional subject matter. See 37 CFR 5.15(b). <input checked="" type="checkbox"/> Foreign transmittal license granted. 35 U.S.C. 184; 37 CFR 5.11 on <u>03 MAY 01</u> : <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <input checked="" type="checkbox"/> 37 CFR 5.15(a) <input type="checkbox"/> 37 CFR 5.15(b) </div> </div>	Completed by: <u>SRH</u>
Name and mailing address of the receiving Office Assistant Commissioner for Patent Box PCT Washington, D.C. 20231 Attn:RO/US Facsimile No. 703-305-3230	Authorized officer Hostad, Sigfried Telephone No. 703-305-3680

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION

(PCT Articles 3(4)(i) and 14(1) and Rule 26)

To:

ARTHUR S. GARRETT
FINNEGAN, HENDERSON, FARABOW, GARRETT
& DUNNER, LL
1300 I STREET, NW
WASHINGTON, DISTRICT OF COLUMBIA
20005-3315

Date of mailing
(day/month/year)

01 Jun 2001

Applicant's or agent's file reference

7781.20-304

REPLY DUE

within 1 months / days
from the above date of mailing

International application No.

PCT/US01/40659

International filing date
(day/month/year)

03 May 2001

Applicant

SAP AKTIENGESELLSCHAFT

1. The applicant is hereby invited, within the time limit indicated above, to correct the defects in the international application as filed, the defects specified on the attached



Annex A



Annex B1 (text matter of the international application as filed)



Annex C1 (drawings of the international application as filed)

2. The applicant is hereby invited, within the time limit indicated above, to correct the defects in the translation of the international application furnished under Rule 12.3, the defects specified on the attached



Annex A



Annex B2 (text matter of the translation of the international application)



Annex C2 (drawings of the translation of the international application)

Additional observations (if necessary):

HOW TO CORRECT THE DEFECTS?

Correction must be submitted by filing a replacement sheet embodying the correction and a letter accompanying the replacement sheet, which shall draw attention to the difference between the replaced sheet and the replacement sheet. A correction may be stated in a letter only if it is of such a nature that it can be transferred from the letter to the record copy without adversely affecting the clarity and direct reproducibility of the sheet onto which the correction is to be transferred (Rule 26.4(a)).

ATTENTION

Failure to correct the defects will result in the international application being considered withdrawn by this receiving Office (see Rule 26.5 for further details).

A copy of this invitation and any attachments has been sent to the International Bureau



and the International Searching Authority.

Name and mailing address of the receiving Office

Assistant Commissioner for Patent

Box PCT

Washington, D.C. 20231 Attn:RO/US

Facsimile No. 703-305-3230

Authorized officer

Hostad, Sigfried

Telephone No. 703-305-3680

Form PCT/RO/I06 (July 1998)

ANNEX A TO FORM PCT/RO/106

International application No.
PCT/US01/40659**The receiving Office has found the following defects in the international application as filed:**

1. As to **signature*** of the international application (Rules 4.15 and 90.4), the request:
- a. ☐ is not signed.
 - b. ☐ is not signed by all applicants.
 - c. ☐ is not accompanied by the statement referred to in the check list in Box No. VIII of the request explaining the lack of the signature of an applicant for the designation of the United States of America.
 - d. ☒ is signed by what appears to be an agent/common representative but
 - ☒ the international application is not accompanied by a power of attorney appointing him.
 - ☐ the power of attorney accompanying the international application was not signed by all the applicants.
 - e. ☐ other (*specify*):

* All applicants must sign, including inventors if they are also applicants (e.g. where the United States of America is designated).

2. As to indications concerning the **applicant**, the request (Rules 4.4 and 4.5):

- a. ☐ does not properly indicate the applicant's name (*specify*):
- b. ☐ does not indicate the applicant's address.
- c. ☐ does not properly indicate the applicant's address (*specify*):
- d. ☐ does not indicate the applicant's nationality.
- e. ☐ does not indicate the applicant's residence.
- f. ☐ other (*specify*):

3. As to the **language** of certain elements of the international application, other than the description and claims (Rules 12.1(c) and 26.3ter(a) and (c)):

- a. ☐ the **request** is not in a language which is both a language accepted by this receiving Office and a language of publication, which is (are):
- b. ☐ the **text matter of the drawings** is not in the language in which the international application is to be published, which is:
- c. ☐ the **abstract** is not in the language in which the international application is to be published, which is:

4. The **title** of the invention:

- a. ☐ is not indicated in Box No. I of the request (Rule 4.1(a)).
- b. ☐ is not indicated at the top of the first sheet of the description (Rule 5.1(a)).
- c. ☒ as appearing in Box No. I of the request is not identical with the title heading the description (Rule 5.1(a)).
(COMMA)

5. As to the **abstract** (Rule 8):

- ☐ the international application does not contain an abstract.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

10019672

Applicant's or agent's file reference 7781.20-304	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/40659	International filing date (day/month/year) 03/05/2001	(Earliest) Priority Date (day/month/year) 04/05/2000
Applicant SAP AKTIENGESELLSCHAFT et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

5

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/40659

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G09B G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 635 953 A (HAYAMI ET AL.) 3 June 1997 (1997-06-03) column 3, line 10 - line 35 column 5, line 32 -column 7, line 24 ---	1-52
A	US 5 878 126 A (VELAMURI ET AL.) 2 March 1999 (1999-03-02) column 20, line 52 -column 24, line 14 ---	1-52
T	BLODGETT: "The ZIP Code Resources Page" INTERNET CITATION, 'Online! 4 April 2002 (2002-04-04), XP002214469 Retrieved from the Internet: <URL:htt://www.oseda.missouri.edu/jgb/ZIP. resources.html> 'retrieved on 2002-09-20! the whole document --- -/--	1-52

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

24 September 2002

Date of mailing of the international search report

10/10/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Abram, R

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/40659

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 44 35 903 A (NIPPGEN) 11 April 1996 (1996-04-11) the whole document -----	1-52

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/40659

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5635953	A	03-06-1997	JP 2780521 B2	30-07-1998
			JP 5019684 A	29-01-1993
			DE 4219171 A1	14-01-1993
			KR 9706740 Y1	02-07-1997

US 5878126	A	02-03-1999	NONE	

DE 4435903	A	11-04-1996	DE 4435903 A1	11-04-1996

TO: ARTHUR S. GARRETT FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LL 1300 I STREET, NW WASHINGTON, DISTRICT OF COLUMBIA 20005-3315	UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) NOTIFICATION OF STATUS OF REQUIREMENTS UNDER 35 U.S.C. 371
	DATE OF MAILING <small>(day/month/year)</small> <div style="text-align: right;">01 Jun 2001</div>
	FILE REFERENCE <div style="text-align: right;">7781.20-304</div>
IDENTIFICATION OF INTERNATIONAL APPLICATION	
International application No. <div style="text-align: center;">PCT/US01/40659</div>	International filing date <small>(day/month/year)</small> <div style="text-align: center;">03 May 2001</div>
Priority Date Claimed <div style="text-align: right;">04 May 2000</div>	
Applicant for DO/EO/US <div style="text-align: center;">EBERT, PETER STEFFEN</div>	
NOTIFICATION	
<p>The applicant is hereby advised that the U.S. Patent and Trademark Office in its capacity as <input checked="" type="checkbox"/> Designated Office <input type="checkbox"/> Elected Office has received following items as of the date of mailing indicated above.</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> U.S. Nation fee [35 U.S.C 371 (c) (1)] 2. <input type="checkbox"/> Oath of declaration [35 U.S.C 371 (c) (4)] 3. <input checked="" type="checkbox"/> Copy of International application as [35 U.S.C 371 (c) (2)] 4. <input type="checkbox"/> Translation of Application [35 U.S.C 371 (c) (2)] 5. <input type="checkbox"/> Amendments under PCT Article 19 [35 U.S.C 371 (c) (3)] 6. <input type="checkbox"/> Translation of PCT Article 19 Amendments [35 U.S.C 371 (c) (3)] 7. <input type="checkbox"/> Search Report or Declaration under PCT Article 17(2) [35 U.S.C 371 (a)] 8. <input type="checkbox"/> International Preliminary Examination Report and its Annexes, if any, under PCT Article 36(3)(b) [35 U.S.C 371 (a)] 9. <input type="checkbox"/> Translation of Annexes to the International Preliminary Examination Report under PCT Article 36(3)(b) [35 U.S.C 371 (c) (5)] 10. <input type="checkbox"/> Other items received: <div style="margin-left: 20px;"> <input type="checkbox"/> Assignment Document <input type="checkbox"/> Prior Art Statement <input type="checkbox"/> Preliminary Amendment </div> <p>A. <input type="checkbox"/> Requirements for U.S. National processing have been met. Processing will commence</p> <div style="margin-left: 20px;"> <input type="checkbox"/> at the expiration of the applicable time limit under either <div style="margin-left: 20px;"> <input type="checkbox"/> PCT Article 22 [35 U.S.C 371 (b)] or <input type="checkbox"/> PCT Article 39 [35 U.S.C 371 (b)] </div> <input type="checkbox"/> on the date indicated below under the provisions of 35 U.S.C 371 (f) </div>	
U.S. NATIONAL SERIAL#	DATE UNDER 35 U.S.C. 102(e)
DATE OF COMMENCEMENT OF NATIONAL PROCESSING	
<p><i>All correspondence submitted after the date of commencement of U.S. National processing indicated above should refer to the U.S. National Serial Number and the appropriate U.S. National processing organization of Officer.</i></p> <p>B. <input type="checkbox"/> As the above identified application has been accepted for U.S. National processing under the provision of 35 U.S.C. 371 (f) before expiration of the applicable time limit under <input type="checkbox"/> PCT Article 22 <input type="checkbox"/> PCT Article 39, applicant is reminded that</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Amendments under PCT Article 19 and/or <input type="checkbox"/> the International Preliminary Examination Report and its Annexes, if any, under PCT Article 36(3) (a), and (b) and any translation thereof, if applicable, must be submitted to the Patent and Trademark Office as soon as they are available. </div>	

International application No. PCT/US01/40659	International filing date 03 May 2001	Priority Date Claimed 04 May 2000
-------------------------------------------------	------------------------------------------	--------------------------------------

C. ☒ In order that U.S. National processing may begin, certain items must be received by the DO/EO/US by the expiration of applicable time limit under

☒ PCT Article 22 or

☒ PCT Article 39.

Specifically:

- ☒ 1. U.S. National Fee
- ☒ 2. Oath or Declaration
- ☐ 3. Copy of Application
- ☐ 4. Translation of application
- ☒ 5. Amendments under PCT Article 19, if any
- ☐ 6. Translation of PCT Article 19 Amendments, if applicable
- ☐ 7. Search Report or PCT Article 17(2) declaration
- ☐ 8. International Preliminary Examination Report and its Annexes, if any, under PCT Article 36(3)(a), if applicable
- ☐ 9. Translation of Annexes to the International Preliminary Examination Report under PCT Article 36(3)(b), if applicable

THE ABOVE CHECK ITEMS MUST BE TIMELY RECEIVED TO AVOID ABANDONMENT OF THE APPLICATION.
[35. U.S.C. 371(d)]

D. Further information for the applicant:

This is only a reminder.

UNITED STATES DESIGNATED/ELECTED OFFICE	
Address Only: Assistant Commissioner for Patent Box PCT Washington, D.C. 20231 Attn:RO/US	Authorized Officer Hostad, Sigfried 703-305-3680

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 November 2001 (08.11.2001)

PCT

(10) International Publication Number
WO 01/083123 A3

(51) International Patent Classification⁷: **G06F 17/30**

(21) International Application Number: PCT/US01/40659

(22) International Filing Date: 3 May 2001 (03.05.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/202,083 4 May 2000 (04.05.2000) US

(71) Applicant (for all designated States except US): **SAP AKTIENGESELLSCHAFT** [DE/DE]; Neurottstrasse 16, 69190 Walldorf (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **EBERT, Peter, Stefan** [DE/US]; 2333 Eastridge Avenue #7, Menlo Park, CA 94025 (US).

(74) Agents: **GARRETT, Arthur, S. et al.**; Finnegan, Henderson, Farrahaw Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC 20005-3315 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

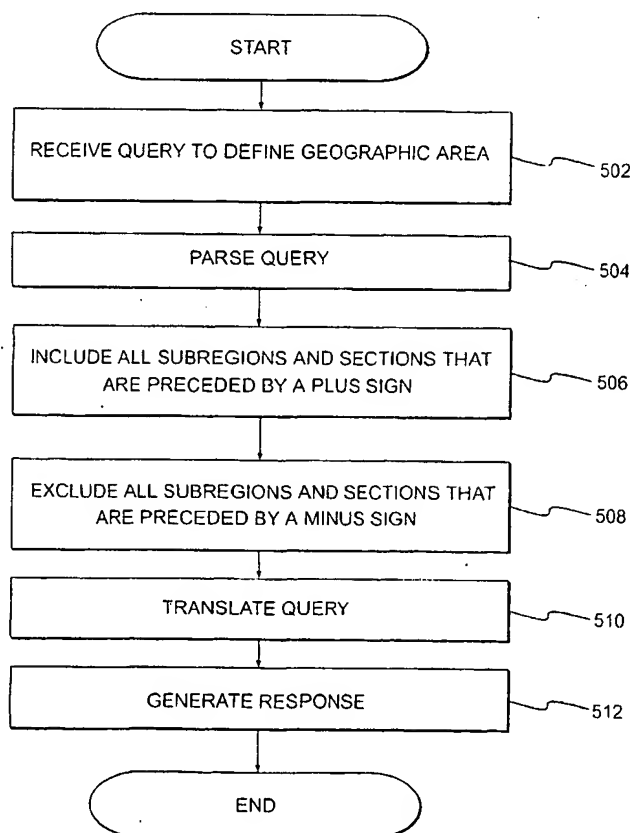
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR SIMPLIFYING AND ACCELERATING THE DEFINITION, DYNAMIC GENERATION AND IDENTIFICATION OF GEOGRAPHIC REGIONS



(57) Abstract: A system and method for defining, generating and identifying a geographic area is disclosed. This may be done by establishing zip codes as the basic building blocks for the geographic area. For example, the United States may represent a region, which includes all of the zip codes in the United States. A region may also be divided into mutually exclusive subregions. For example, individual states within the United States may represent the subregions, wherein the individual states represent all of the zip codes within that state. The subregions are then divided into mutually exclusive sections. For example, zip codes within the individual states may represent the sections. Simplified syntax is then used to allow a user to submit a query including parameters to identify subregions or sections that are to be included or excluded from the defined geographic area within the region. The system then processes this query and outputs a response representative of the query.

WO 01/083123 A3



(88) Date of publication of the international search report:
30 January 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.